QC ABSTRACT

NAME OF WORK: Improvements Roads and Drains and Providing Covering Slabs at Srinidhi Layout Vaishanvi Layout Sai Garden Kamat Layout and Surrounding Areas in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	5 set /51-100 cum	70	10	10

Executive Engineer
Division

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-09-04-06** **Date: 30-07-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads and Drains and Providing Covering Slabs at Srinidhi Layout Vaishanvi Layout Sai Garden Kamat Layout and Surrounding Areas in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division
Agency	:	Sri.Abbu Sambasiva Reddy, No:1B3, Sree Arcade Layout, 4th Block Doddabommasandra, Vidyaranyapura Post, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/[illegible]/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-07-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	28-07-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.05	_
2	Finess by Air permeablity method (m^2/kg,Min)	293.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Technical Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-09-04-06** **Date: 25-08-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads and Drains and Providing Covering Slabs at Srinidhi Layout Vaishanvi Layout Sai Garden Kamat Layout and Surrounding Areas in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division
Agency	:	Sri.Abbu Sambasiva Reddy, No:1B3, Sree Arcade Layout, 4th Block Doddabommasandra, Vidyaranyapura Post, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/50/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-07-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	28-07-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-09-04-06** **Date: 30-07-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads and Drains and Providing Covering Slabs at Srinidhi Layout Vaishanvi Layout Sai Garden Kamat Layout and Surrounding Areas in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division
Agency	:	Sri.Abbu Sambasiva Reddy, No:1B3, Sree Arcade Layout, 4th Block Doddabommasandra, Vidyaranyapura Post, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/58/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	27-07-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-07-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	238	238	1.6	98.4	90-100
3	20 mm	7448	7686	51.2	48.8	30-70
4	10 mm	5488	13174	87.8	12.2	10-35
5	4.75 mm	1495	14669	97.8	2.2	0-5
6	Pan	331	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-09-04-06** **Date: 30-07-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.9	
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.38	_
5	Bulk Density(Compacted) (Kg/l)	1.43	_
6	Water Absorption(%)	0.25	_

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-09-04-06** **Date: 29-07-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads and Drains and Providing Covering Slabs at Srinidhi Layout Vaishanvi Layout Sai Garden Kamat Layout and Surrounding Areas in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division
Agency	:	Sri.Abbu Sambasiva Reddy, No:1B3, Sree Arcade Layout, 4th Block Doddabommasandra, Vidyaranyapura Post, Bangalore-97
Customer Reference	:	BBMP/EE/BTP/WO/50/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-07-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-07-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-09-04-06** **Date: 29-07-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.43	_
5	Bulk Density(Compacted) (Kg/l)	1.49	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-09-04-06** **Date: 29-07-20**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains and Providing Covering Slabs at Srinidhi Layout Vaishanvi Layout Sai Garden Kamat Layout and Surrounding Areas in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : Sri.Abbu Sambasiva Reddy, No:1B3, Sree Arcade Layout, 4th Block Doddabommasandra, Vidyaranyapura Post, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/56/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-07-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 27-07-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-09-04-06** **Date: 29-07-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2020-09-04-06** **Date: 10-08-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads and Drains and Providing Covering Slabs at Srinidhi Layout Vaishanvi Layout Sai Garden Kamat Layout and Surrounding Areas in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division
Agency	:	Sri.Abbu Sambasiva Reddy, No:1B3, Sree Arcade Layout, 4th Block Doddabommasandra, Vidyaranyapura Post, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/50/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-08-20
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	07-08-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	153	200	12271	33.730	2748.9	2739.5	Not less than 1800Kg/m^3
2	399	153	200	12209	33.334	2730.2		
3	402	150	200	12060	33.037	2739.4		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2020-09-04-06** **Date: 10-08-20**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	152	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	151	199	
3	400	151	203	
4	403	150	202	
5	400	152	199	
6	403	151	200	
7	402	150	199	
8	400	152	203	
9	400	151	200	
10	404	152	200	
11	399	150	199	
12	401	150	200	
13	402	150	202	
14	400	150	203	
15	403	149	201	
16	403	152	203	
17	404	152	203	
18	401	151	202	
19	400	150	202	
20	399	150	203	
Average of 20	**401**	**151**	**201**	

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Lab ID : **CP-2020-09-04-06** **Date: 10-08-20**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	152	60853	285.8	4.7	4.7
2	402	151	60872	289.9	4.8	
3	400	151	60590	286.5	4.7	
4	403	150	60481	288.3	4.8	
5	400	152	60693	286.2	4.7	
6	403	151	60869	283.3	4.7	
7	402	150	60158	284.3	4.7	
8	400	152	60695	285.8	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2020-09-04-06** **Date: 17-08-20**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains and Providing Covering Slabs at Srinidhi Layout Vaishanvi Layout Sai Garden Kamat Layout and Surrounding Areas in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : Sri.Abbu Sambasiva Reddy, No:1B3, Sree Arcade Layout, 4th Block Doddabommasandra, Vidyaranyapura Post, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/56/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-08-20

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 11/08/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2020-09-04-06** **Date: 17-08-20**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains and Providing Covering Slabs at Srinidhi Layout Vaishanvi Layout Sai Garden Kamat Layout and Surrounding Areas in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : Sri.Abbu Sambasiva Reddy, No:1B3, Sree Arcade Layout, 4th Block Doddabommasandra, Vidyaranyapura Post, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/58/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-08-20

Sample Type /Size : Precast Cover Slab (250mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 11/08/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	230.9	7.3	6.8	8.5
2	Cover Slab-2	200.49	250.52	3.122	31564	232.3	7.4	6.8	8.6
3	Cover Slab-3	200.50	250.51	3.118	31567	231.5	7.3	6.8	8.5

Note:

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Authorized Signatory
Technical Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-09-04-06** **Date: 11/08/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains and Providing Covering Slabs at Srinidhi Layout Vaishanvi Layout Sai Garden Kamat Layout and Surrounding Areas in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : Sri.Abbu Sambasiva Reddy, No:1B3, Sree Arcade Layout, 4th Block Doddabommasandra, Vidyaranyapura Post, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/50/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	04/08/2020	11/08/2020	149.91 X 149.42 X 151.37	22399	**8.805**	287.6	12.8	12.7
2	PCC	M15	04/08/2020	11/08/2020	149.01 X 150.46 X 151.59	22420	**8.119**	279.3	12.5	
3	PCC	M15	04/08/2020	11/08/2020	151.90 X 149.40 X 151.85	22695	**8.040**	291.7	12.9	

Note:

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-09-04-06** **Date: 01/09/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains and Providing Covering Slabs at Srinidhi Layout Vaishanvi Layout Sai Garden Kamat Layout and Surrounding Areas in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : Sri.Abbu Sambasiva Reddy, No:1B3, Sree Arcade Layout, 4th Block Doddabommasandra, Vidyaranyapura Post, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/50/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	04/08/2020	01/09/2020	150.44 X 149.27 X 151.43	22457	8.866	397.3	17.7	17.6
2	PCC	M15	04/08/2020	01/09/2020	151.80 X 151.41 X 149.36	22985	8.327	400.3	17.4	
3	PCC	M15	04/08/2020	01/09/2020	150.71 X 150.61 X 149.63	22698	8.793	402.2	17.7	

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BBMP, Bangalore-97

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-09-04-06** **Date: 11/08/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains and Providing Covering Slabs at Srinidhi Layout Vaishanvi Layout Sai Garden Kamat Layout and Surrounding Areas in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : Sri.Abbu Sambasiva Reddy, No:1B3, Sree Arcade Layout, 4th Block Doddabommasandra, Vidyaranyapura Post, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/50/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	04/08/2020	11/08/2020	150.75 X 151.35 X 151.75	22815	**8.805**	279.0	12.2	12.3
2	PCC	M15	04/08/2020	11/08/2020	151.95 X 149.64 X 151.12	22737	**8.119**	276.9	12.2	
3	PCC	M15	04/08/2020	11/08/2020	151.18 X 149.72 X 149.61	22635	**8.040**	281.1	12.4	

Note:

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BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-09-04-06** **Date: 01/09/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains and Providing Covering Slabs at Srinidhi Layout Vaishanvi Layout Sai Garden Kamat Layout and Surrounding Areas in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : Sri.Abbu Sambasiva Reddy, No:1B3, Sree Arcade Layout, 4th Block Doddabommasandra, Vidyaranyapura Post, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/50/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	04/08/2020	01/09/2020	149.16 X 150.36 X 149.41	22428	**8.866**	400.8	17.9	17.8
2	PCC	M15	04/08/2020	01/09/2020	150.77 X 151.11 X 150.94	22782	**8.327**	405.5	17.8	
3	PCC	M15	04/08/2020	01/09/2020	151.81 X 151.08 X 149.57	22935	**8.793**	403.4	17.6	

Note:
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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-09-04-06** **Date: 11/08/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains and Providing Covering Slabs at Srinidhi Layout Vaishanvi Layout Sai Garden Kamat Layout and Surrounding Areas in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : Sri.Abbu Sambasiva Reddy, No:1B3, Sree Arcade Layout, 4th Block Doddabommasandra, Vidyaranyapura Post, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/50/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	04/08/2020	11/08/2020	149.77 X 151.32 X 150.53	22663	**8.805**	290.0	12.8	12.6
2	PCC	M15	04/08/2020	11/08/2020	150.81 X 151.47 X 150.75	22844	**8.119**	280.6	12.3	
3	PCC	M15	04/08/2020	11/08/2020	150.79 X 150.72 X 151.57	22727	**8.040**	290.2	12.8	

Note:

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-09-04-06** **Date: 01/09/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains and Providing Covering Slabs at Srinidhi Layout Vaishanvi Layout Sai Garden Kamat Layout and Surrounding Areas in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : Sri.Abbu Sambasiva Reddy, No:1B3, Sree Arcade Layout, 4th Block Doddabommasandra, Vidyaranyapura Post, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/50/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	04/08/2020	01/09/2020	151.45 X 151.95 X 151.08	23014	**8.866**	407.7	17.7	17.5
2	PCC	M15	04/08/2020	01/09/2020	151.23 X 150.06 X 149.09	22694	**8.327**	391.6	17.3	
3	PCC	M15	04/08/2020	01/09/2020	149.49 X 151.87 X 149.67	22704	**8.793**	396.6	17.5	

Note:
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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-09-04-06** **Date: 11/08/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains and Providing Covering Slabs at Srinidhi Layout Vaishanvi Layout Sai Garden Kamat Layout and Surrounding Areas in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : Sri.Abbu Sambasiva Reddy, No:1B3, Sree Arcade Layout, 4th Block Doddabommasandra, Vidyaranyapura Post, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/50/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	04/08/2020	11/08/2020	150.89 X 149.66 X 149.27	22581	**8.805**	275.9	12.2	12.1
2	PCC	M15	04/08/2020	11/08/2020	149.24 X 150.66 X 149.12	22485	**8.119**	271.0	12.1	
3	PCC	M15	04/08/2020	11/08/2020	151.65 X 149.03 X 149.62	22601	**8.040**	273.6	12.1	

Note:

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-09-04-06** **Date: 01/09/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains and Providing Covering Slabs at Srinidhi Layout Vaishanvi Layout Sai Garden Kamat Layout and Surrounding Areas in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : Sri.Abbu Sambasiva Reddy, No:1B3, Sree Arcade Layout, 4th Block Doddabommasandra, Vidyaranyapura Post, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/50/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	04/08/2020	01/09/2020	149.91 X 151.76 X 150.19	22750	**8.866**	390.8	17.2	17.4
2	PCC	M15	04/08/2020	01/09/2020	149.58 X 150.72 X 149.98	22545	**8.327**	386.7	17.2	
3	PCC	M15	04/08/2020	01/09/2020	149.18 X 150.31 X 151.79	22423	**8.793**	402.8	18.0	

Note:

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BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-09-04-06** **Date: 11/08/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains and Providing Covering Slabs at Srinidhi Layout Vaishanvi Layout Sai Garden Kamat Layout and Surrounding Areas in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : Sri.Abbu Sambasiva Reddy, No:1B3, Sree Arcade Layout, 4th Block Doddabommasandra, Vidyaranyapura Post, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/50/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	04/08/2020	11/08/2020	151.32 X 149.38 X 150.53	22604	**8.805**	282.5	12.5	12.3
2	PCC	M15	04/08/2020	11/08/2020	151.32 X 150.56 X 151.46	22783	**8.119**	278.3	12.2	
3	PCC	M15	04/08/2020	11/08/2020	150.43 X 150.16 X 151.56	22589	**8.040**	274.7	12.2	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-09-04-06** **Date: 01/09/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads and Drains and Providing Covering Slabs at Srinidhi Layout Vaishanvi Layout Sai Garden Kamat Layout and Surrounding Areas in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : Sri.Abbu Sambasiva Reddy, No:1B3, Sree Arcade Layout, 4th Block Doddabommasandra, Vidyaranyapura Post, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/50/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	04/08/2020	01/09/2020	151.53 X 149.64 X 150.30	22675	**8.866**	407.4	18.0	17.3
2	PCC	M15	04/08/2020	01/09/2020	150.63 X 149.51 X 151.03	22522	**8.327**	383.0	17.0	
3	PCC	M15	04/08/2020	01/09/2020	150.02 X 150.93 X 151.60	22643	**8.793**	385.7	17.0	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL PRO BANGALORE Sig Date

FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****